

on 2 1/2 SATG hnd
A 7W
51FF
5FSC
MHW
min

Radio

AMATEUR

Call Book Magazine

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Foreign
\$1.70



SUMMER, 1946

RCA-815—push-pull beam-power tube. A hot type for all three bands.

RCA-829-B—push-pull beam-power tube. Full output to 200 Mc.

RCA-832-A—push-pull beam-power tube. Ideal for UHF.

RCA-1624—companion to RCA-807, but with 2.5 v. quick-heating filament.

RCA-807—single beam-power tube. A favorite for 28 and 50 Mc.

RCA-813—the "big brother" of the beam-power tube family.

6

OUTSTANDING RCA BEAM POWER TUBES for Current Amateur Bands

Whether you intend working 28, 50 or 144, the beam-power principle will provide you with more sock for less money

AS A GROUP, RCA beam-power tubes require less drive and deliver more output at lower plate voltage, than any other representative type of transmitting tube. You get the same results with fewer stages, smaller tubes and a less elaborate power supply.

Moreover, it is seldom necessary to neutralize a beam-power stage, which means that you can build a multi-band transmitter capable of quick band changing without re-neutralizing for each frequency.

Remember, too, that the unusual characteristics of beam-power tubes make them efficient as modulators, frequency doublers and modulated finals.

The Fountainhead of Modern Tube Development is RCA

COMPARATIVE TECHNICAL DATA*
(R-F Amplifier, Class C. Telegraphy, CCS)

Tube Type No.	Plate Watts	Driv. Pow. at Tube	Max. Rat. Freq. Mc.	Plate Volts	Amateur Net Price
807	60	0.2	60	500	\$1.95
813	360	0.5	30	2000	18.00
815	60	0.2	125	400	4.50
829-B	120	0.7	200	500	17.00
832-A	36	0.2	200	500	13.00
1624	54	0.5	60	600	2.40

*For detailed operating conditions, see the Radio Amateur's Handbook or the RCA Transmitting Tube Guide

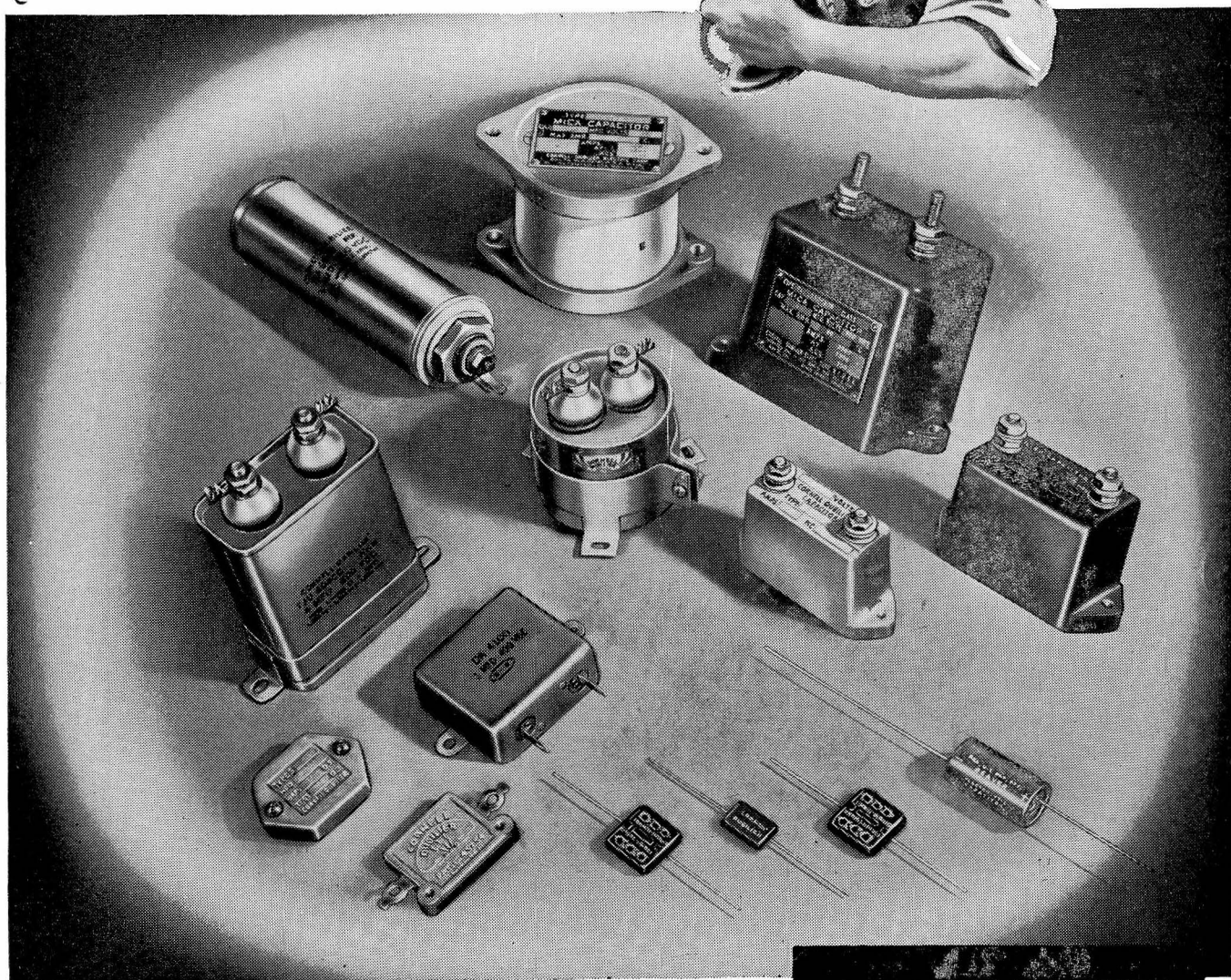


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Tell 'Em You Saw It in the Radio Amateur Call Book Magazine

RADIO AMATEUR CALL BOOK

MAGAZINE

Many new DX calls are contained in this issue of the CALLBOOK. We have heard from nearly all of the countries throughout the world where amateur radio has been authorized. We hope to have a complete list of VK calls in the next issue.

It is our aim to make the CALLBOOK as complete, accurate and up-to-date as possible. In this connection we ask your help.

If you are in a district that has a new prefix and your new call is listed in this issue, please check to see if your old call or calls have been deleted. If they have not been taken out please write us.

The Editor.

VOLUME 24 NUMBER 2

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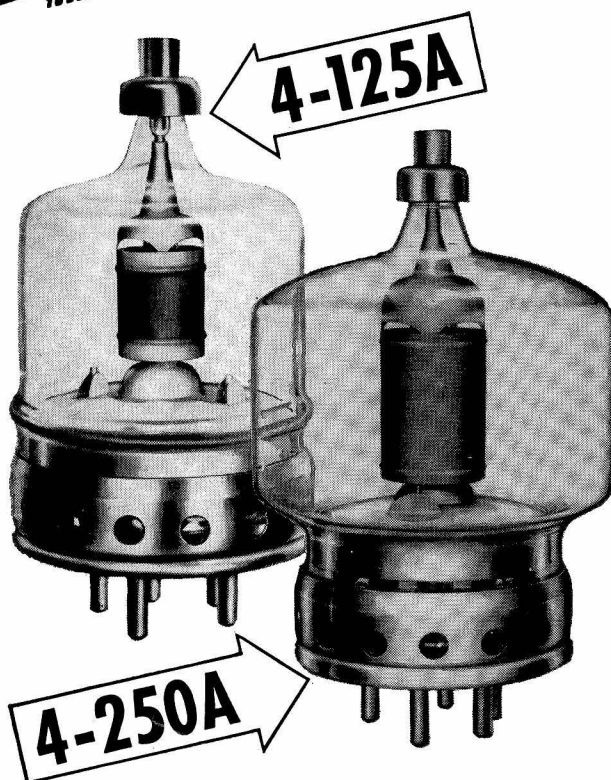
RADIO AMATEUR CALL BOOK is published quarterly. Annual subscription, \$5.00 in the United States and Possessions, Canada and foreign countries, \$6.00. Single copies U. S. \$1.50, foreign \$1.70. Entry as second class matter applied for at the post office at Chicago, Illinois, under act of March 3, 1879.

C O N T E N T S

FIRST DISTRICT	25
Includes the States of Maine, New Hampshire, Vermont, Massachusetts, Rhode Island and Connecticut.	
SECOND DISTRICT	39
Includes the States of New York and New Jersey.	
THIRD DISTRICT	56
Includes the States of Pennsylvania, Delaware, Maryland and the District of Columbia.	
FOURTH DISTRICT	68
Includes the States of Virginia, North and South Carolina, Georgia, Florida, Alabama, Tennessee, Kentucky, Puerto Rico and Virgin Islands.	
FIFTH DISTRICT	77
Includes the States of Mississippi, Louisiana, Arkansas, Oklahoma, Texas and New Mexico.	
SIXTH DISTRICT	89
California, Hawaii and Pacific Possessions, except those included in the seventh call area.	
SEVENTH DISTRICT	121
Includes the States of Oregon, Washington, Idaho, Montana, Wyoming, Arizona, Nevada, Utah, Alaska and adjacent islands.	
EIGHTH DISTRICT	133
Includes the States of Michigan, Ohio and West Virginia.	
NINTH DISTRICT	166
Includes the States of Wisconsin, Illinois and Indiana.	
TENTH DISTRICT	211
Includes the States of Colorado, Nebraska, North and South Dakota, Kansas, Minnesota, Iowa and Missouri.	
FOREIGN RADIO AMATEURS	212
WORLD MAP SHOWING RADIO AMATEUR PREFIXES	250-255

Eimac
TUBES

THE COUNTERSIGN OF DEPENDABILITY IN ANY ELECTRONIC EQUIPMENT



ONE KILOWATT PHONE	
THE CLASS-C AMPLIFIER	A pair of Eimac 4-250A's
D-C Plate Voltage	2500 volts
D-C Plate Current	400 ma.
D-C Screen Voltage	400 volts
D-C Screen Current	52 ma.
D-C Grid Voltage	-200 volts
D-C Grid Current	22 ma.
Plate Power Input	1000 watts
Plate Power Output	750 watts
Driving Power	5.5 watts
THE MODULATOR	A pair of Eimac 4-250A's
D-C Plate Voltage	2500 volts
Zero-Sig. D-C Plate Current	140 ma.
Max-Sig. D-C Plate Current	400 ma.
D-C Grid Voltage	-80 volts
D-C Screen Voltage	500 volts
D-C Screen Current	-2 ma.
Peak A-F Grid Input Voltage (per grid)	74 volts
Load Impedance, Plate-to-Plate	11,300 ohms
Audio Power Output	500 watts
Driving Power	0
Total Harmonic Dist.	1.6 %

A Kilowatt Phone or CW Rig for Every Amateur

Wartime developments in vacuum tubes put "the kilowatt rig," whether phone or CW, within the reach of every amateur. These two Eimac tetrodes are outstanding examples.

A pair of Eimac 4-125A's will allow a full kilowatt CW input at 2500 volts at all amateur frequencies up to and including the 5-meter band. The two 4-125A's require a total driving power of only 7.2 watts. Neutralization is not necessary.

Amateurs who prefer a single tube in the CW output amplifier will find the Eimac 4-250A to their liking. This new tube will handle a kilowatt input at 3000 plate volts on all amateur bands up to and including the 5-meter band. At one kilowatt input the 4-250A

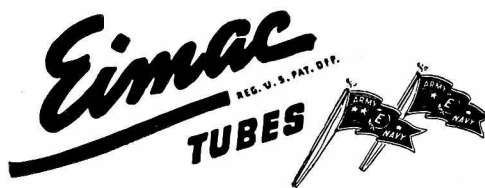
requires a driving power of only 5.8 watts.

For the one-kilowatt phone transmitter the combination of two 4-250A's in the Class-C stage and another pair of 4-250A's in the modulator offers the ultimate in economy of r-f and audio driving equipment. At 2500 plate volts the one-kilowatt Class-C amplifier requires a driving power of only 5.5 watts, while the Class-AB₁ modulator requires zero driving power. The modulator may be driven directly from a resistance-coupled speech amplifier; no "driver" stage is necessary.

Today (Post-War) you can depend upon Eimac for leadership just as you did yesterday (Pre-War). Keep in touch with Eimac—your inquiry incurs no obligation.

ONE KILOWATT CW		
	A pair of Eimac 4-125A's	One Eimac 4-250A
D-C Plate Voltage	2500 volts	3000 volts
D-C Plate Current	400 ma.	333 ma.
D-C Screen Voltage	350 volts	500 volts
D-C Screen Current	80 ma.	52 ma.
D-C Grid Voltage	150 volts	-200 volts
D-C Grid Current	24 ma.	23 ma.
Plate Power Input	1000 watts	1000 watts
Plate Power Output	750 watts	750 watts
Driving Power	7.2 watts	5.8 watts

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Tell 'Em You Saw It in the Radio Amateur Call Book Magazine

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they can now be previewed 40, or more,
times longer than they are usually heard
while tuning the receiver!

The PANADAPTOR provides Panoramic Reception. That is—all stations within any selected 200 kc. portion of a band produce on the Panoramic screen corresponding deflections indicating station characteristics. And for more

detailed examination, a single signal can be magnified to occupy the entire screen. This flexibility makes the PANADAPTOR ideal for all sorts of amateur applications for listening and transmitting.

**You must see the PANADAPTOR in operation to realize how
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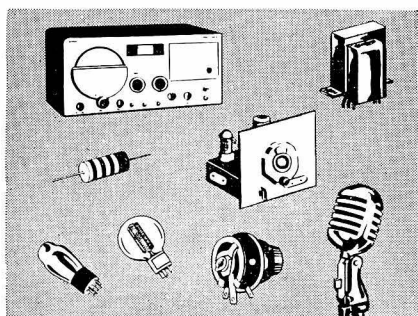
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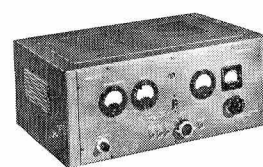
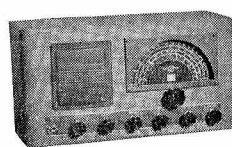
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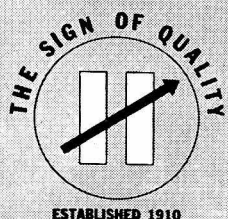
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Series 400

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Here, for the first time, you get *all* these features in *one* microphone! With amazing flexibility, new CARDAX efficiently serves many applications ... easily solves everyday problems of sound pick-up and reproduction!

★ **TRUE CARDIOID POLAR PATTERN** New E-V Mechanophase* principle gives wide-angle front pick-up in true cardioid pattern over wide frequency range. Sound at rear dead zone cancels out and is not reproduced.

★ **STOPS FEEDBACK—CUTS BACKGROUND NOISE AND REVERBERATION PICK-UP** Permits nearly double usable loud speaker volume. Simplifies microphone and speaker placement. Assures finer reproduction of just the sound wanted.

★ **DUAL FREQUENCY RESPONSE** Screw control on back gives (a) Wide range flat response for high fidelity sound pick-up or (b) Wide range with rising characteristic for extra crispness of speech or high frequency emphasis.

★ **HIGH OUTPUT LEVEL** —57 db for flat frequency response. —48 db for rising frequency response.

★ **VOICE AND MUSIC PICK-UP EXACTLY AS DESIRED** Ideal for public address, recording, remote broadcast, communications ... indoors and outdoors.

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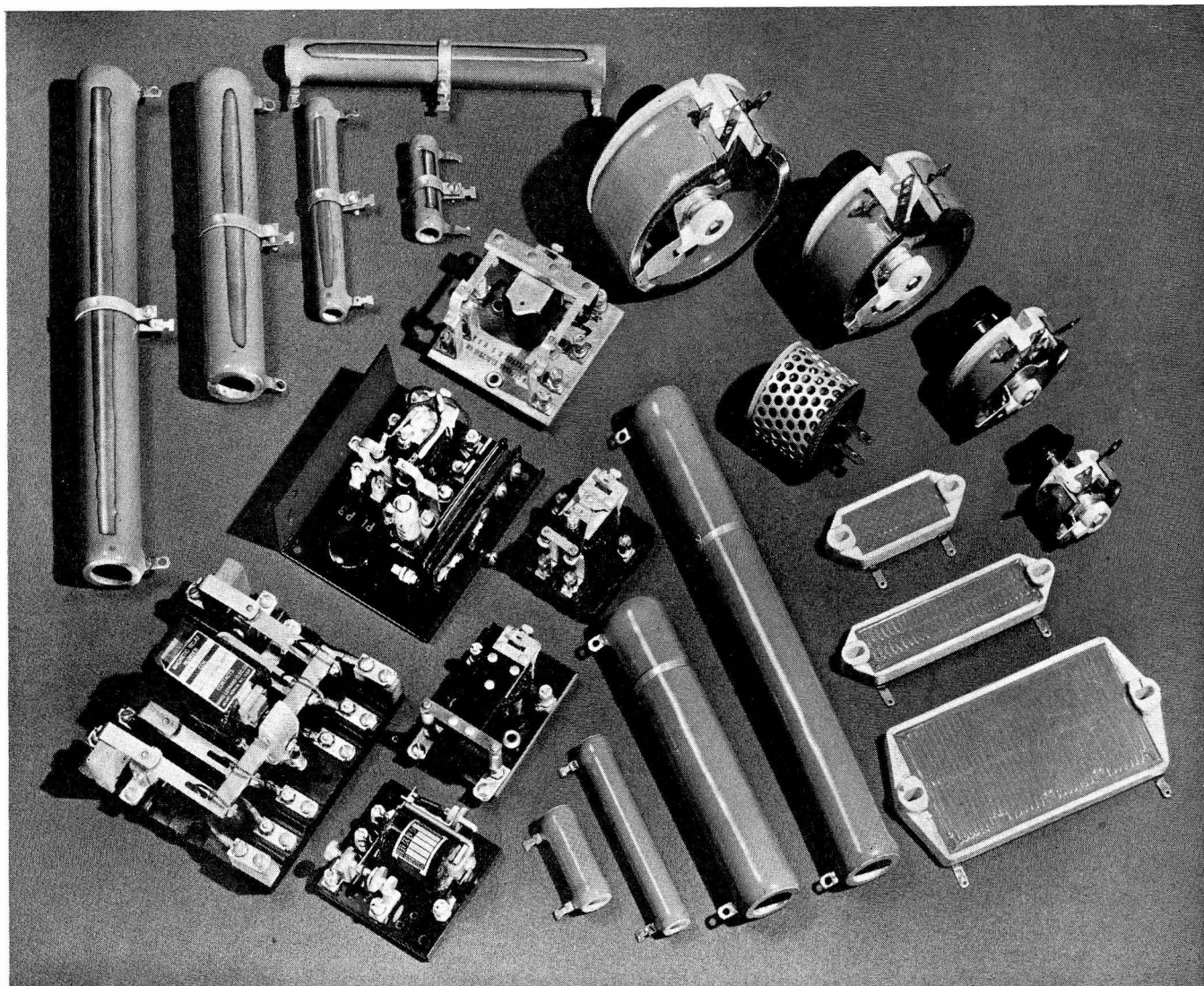
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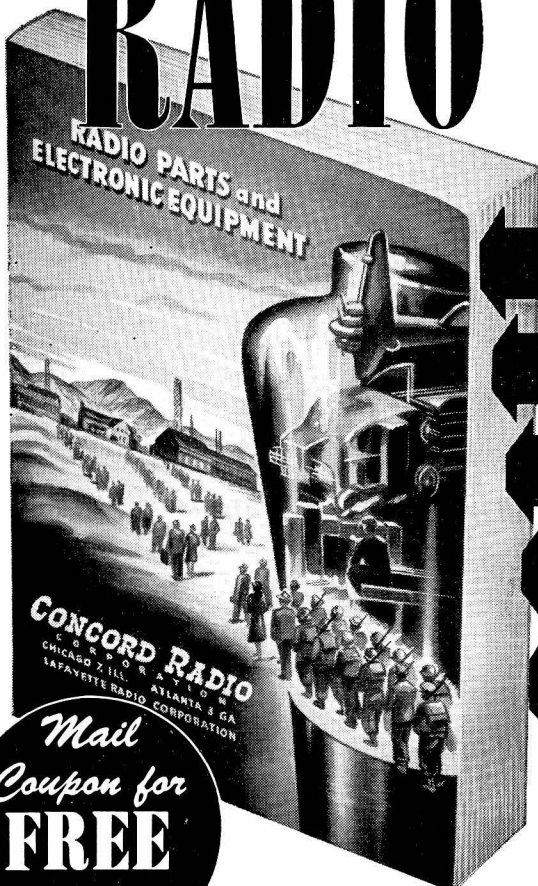
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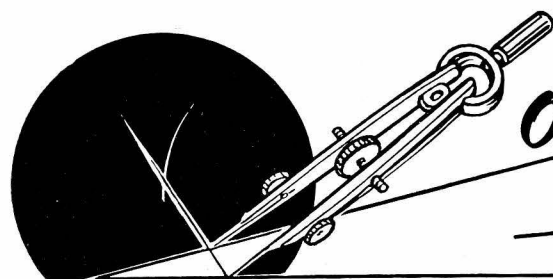
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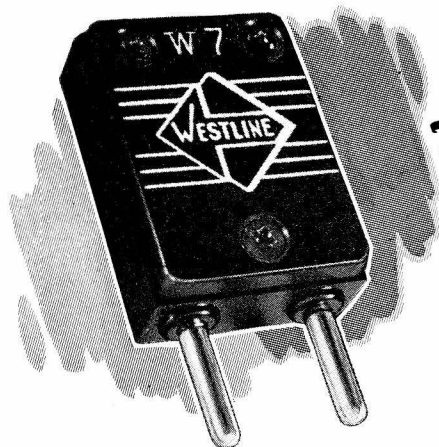
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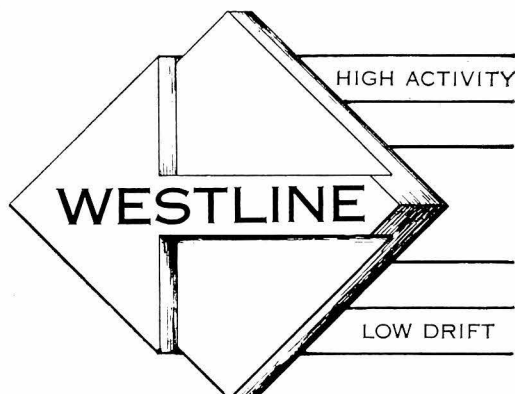
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New Production Methods Give You Improved Performance

Now available to amateurs, Crystal Units made with new X-RAY and POLAROID process, a WESTLINE feature resulting from four years of rigid war production. Here are some of the outstanding features...

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- 3 COMPACT HOLDERS**... sturdy bakelite construction. Designed for maximum performance.
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**...GET BACK
ON THE AIR**

★ **SAVE CONSTRUCTION HOURS**
★ **BE SURE AS YOU BUILD**

The Simpson Model 240 was introduced in 1939. In the two short years before "Hams" went off the air, this remarkable general service instrument built itself such a reputation that the demand for it has never ceased. During the war it was supplied to the Services in limited quantities. It has undergone steady improvement as the result of test and research. Now we can offer it to you again, a vastly better instrument than before—and it was always a sensational instrument.

Completely self-contained, needing no external multipliers, with a sensitivity of 1000 ohms per volt and a maximum voltage of 3000 volts A.C. or D.C., it has all the variety of useful ranges needed to do an all-around job for you.

The 3-inch meter has a scale over $\frac{1}{3}$ greater than before, offers greater accu-

racy in reading. The whole chassis is encased in heavy molded bakelite. All components and the sub-panel are mounted directly on the bakelite panel for easy servicing and greater sturdiness. All figures are engraved and filled with white enamel for greater legibility and wearing qualities.

Shock-proof, it has the famous Simpson movement with bridge-type construction and soft iron pole pieces, resistors in matched pairs to provide greatest possible accuracy for all ranges. It is furnished with test leads whose wire covering is capable of withstanding 3000 volts. Alligator clips have safety rubber guards.

Here is the instrument that will get you on the air and keep you there, helping you to build soundly and to troubleshoot speedily and surely.

RANGES		
VOLTS A. C.	VOLTS D. C.	MILLIAMPERES D. C.
0-15	0-15	0-15
0-150	0-75	0-75
0-750	0-300	0-300
0-3,000	0-750	0-750
	0-3,000	
	Ohms: 0-3,000 (center scale 30)	
	0-300,000 (center scale 3,000)	

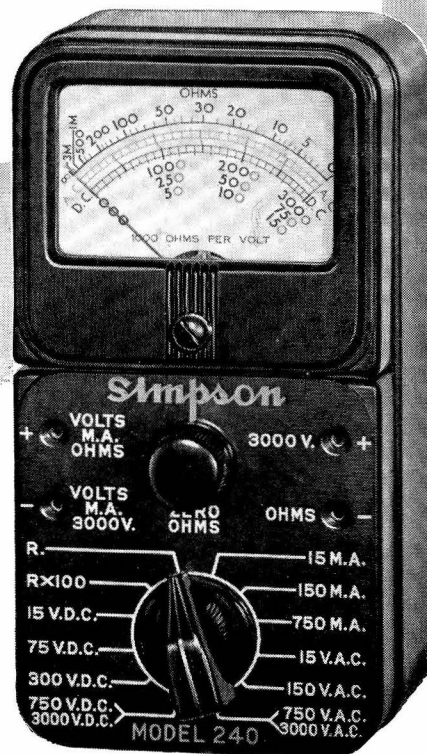
THE NEW SIMPSON MODEL 240—THE "HAMMETER"
—1946 version of the first self-contained pocket portable instrument built expressly to check high voltage and all component parts of transmitters and receivers.

Price, complete with test leads.....\$26.50

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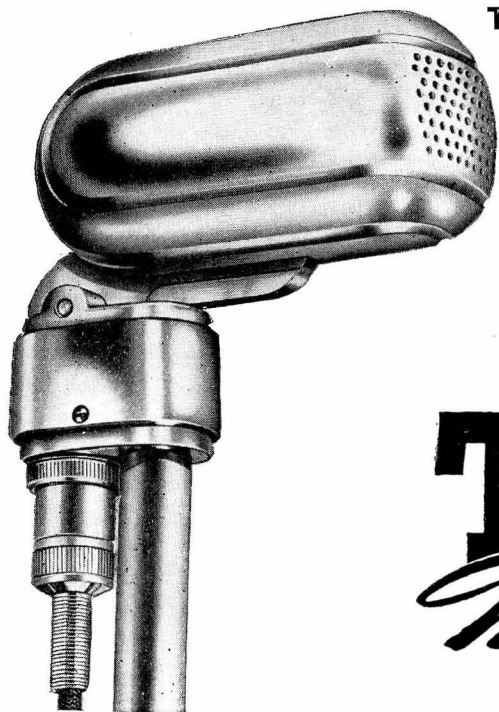
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Precision engineered to amplify all vibrations received by the diaphragm without adding any of the harmonics, TURNER Microphones are rugged instruments that assure clear, sharp communications without distortion. Every unit is thoroughly tested and "Certified" before leaving the factory. For utmost in style and dependable performance under severe operating conditions Turn to Turner.

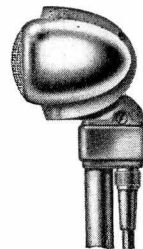
Turner Microphones

New 211 Dynamic

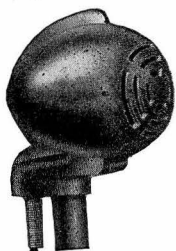
Engineered for highest quality recording, P. A., sound system and broadcast work, including FM. Utilizes new type magnet structure and acoustic network. Unique diaphragm structure design provides extremely low harmonic and phase distortion without sacrifice of high output level. Range 30-10,000 cycles. Level -54DB. Available in all standard impedances with 90° tilting head and 20 ft. heavy duty removable cable set with balanced line connection.

Famous TURNER 22X-22D

Engineered for smooth response to both voice and music pick-ups. Feedback cut to minimum. 22X Crystal has built-in wind-gag permitting outdoor operation. Crystal impregnated against moisture and protected from changes in barometric pressure. Range 30-7000 cycles. Level -52DB. 22D Dynamic has high level dynamic cartridge. Dependable indoors or out. Range 30-8000 cycles. Level -52DB. In 50, 200, 500 ohms, or high impedance. Both models equipped with 90° tilting head and 7 ft. removable cable set.



TURNER CHALLENGERS Offer Plus Performance at Low Cost



MODEL BX

CRYSTAL mike for recording, P.A. and ham work. Bronze enamel finish. Level -52DB. Range 50-6,000 cycles. An excellent unit. With 7 ft. cable.

MODEL BD

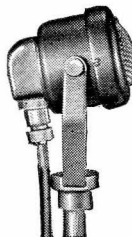
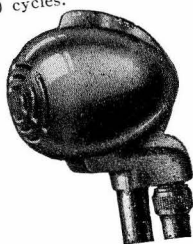
DYNAMIC, same finish as BX. Works indoors or out. Level -52DB. Range 50-6,000 cycles. 200-250 ohms, 500 ohms or high impedance. 7 ft. cable.

MODEL CX

CRYSTAL, in rich brushed chrome finished case. 7 ft. removable cable set uses Amphenol connectors. Level -52DB. Range 50-7,000 cycles.

MODEL CD

DYNAMIC, same style and finish as CX with 7 ft. removable cable set. In 200-250 ohms, 500 ohms or high impedance. Level -52DB. Range 50-7,000 cycles.



TURNER 99 Dynamic

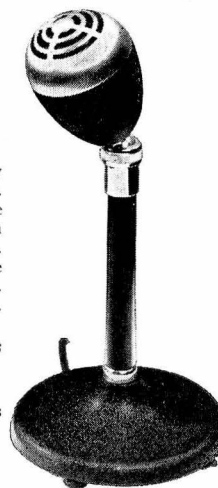
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B & W



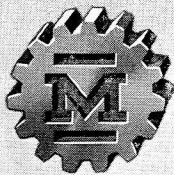
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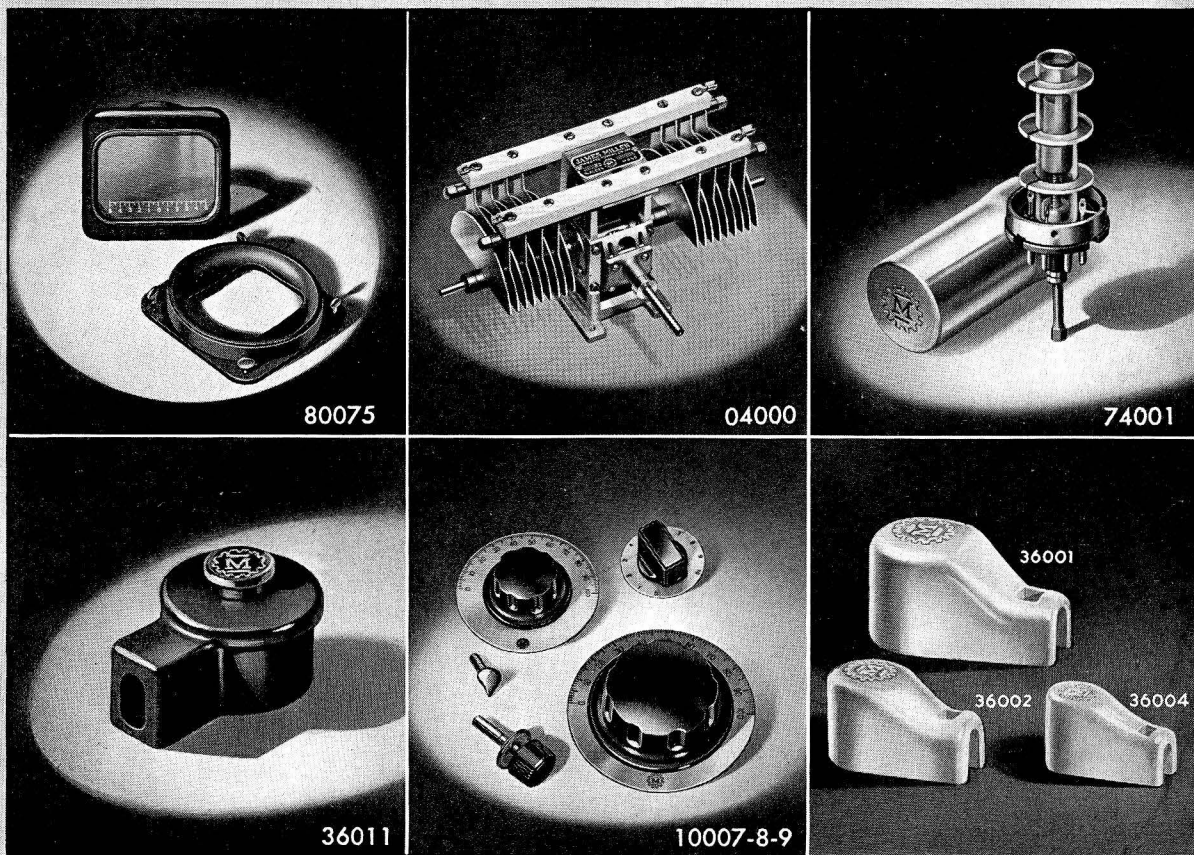
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Illustrated above, left to right; Top row: The No. 80075 cathode ray tube Bezel, the No. 04000 series of adjustable shaft angle, center drive variable transmitting condensers and the No. 74001 permeability tuned shielded plug-in coil form. Bottom row: The No. 36011 snap lock multiple finger contact plate caps, the small panel dials and finally the Ceramic insulated plate caps.

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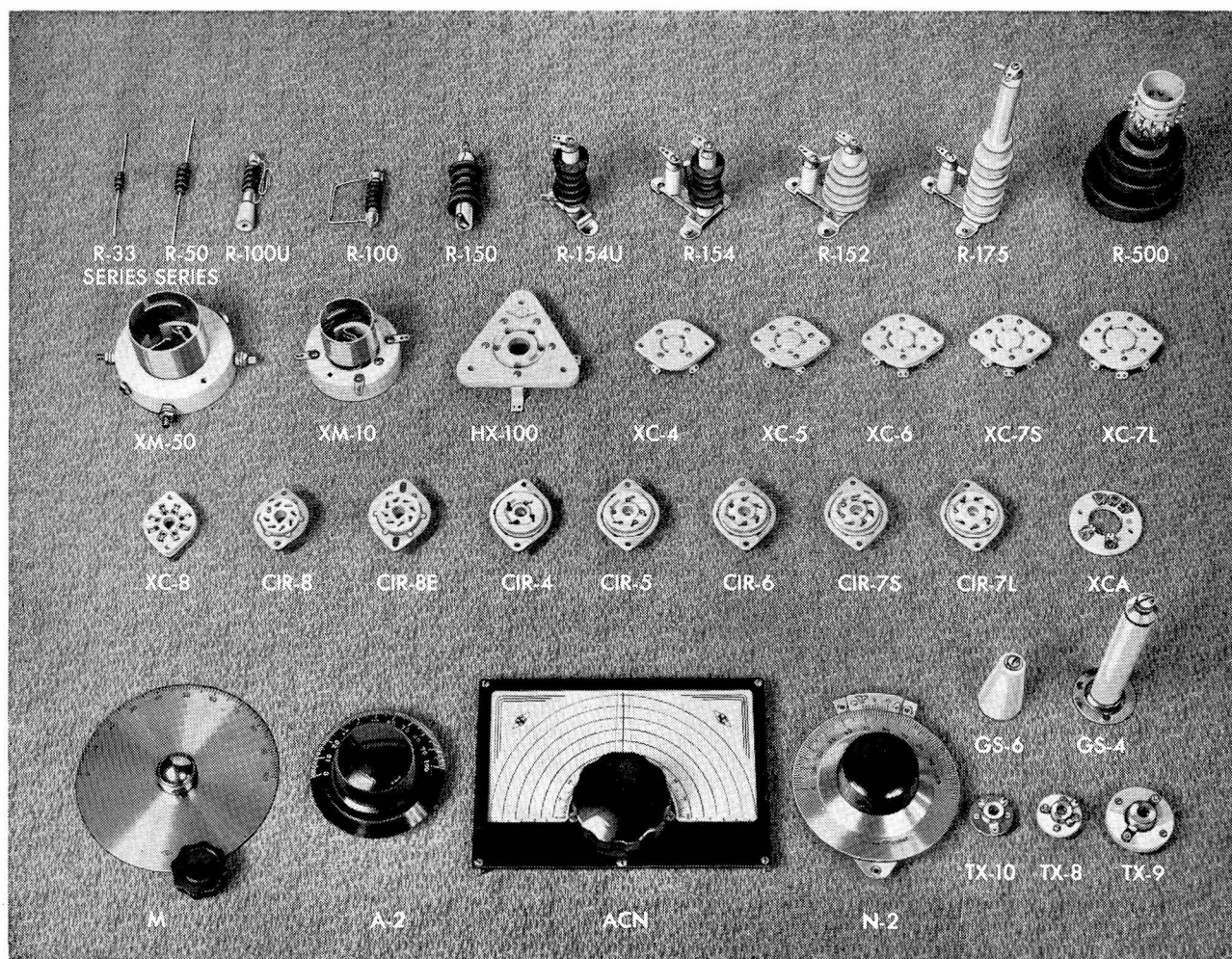


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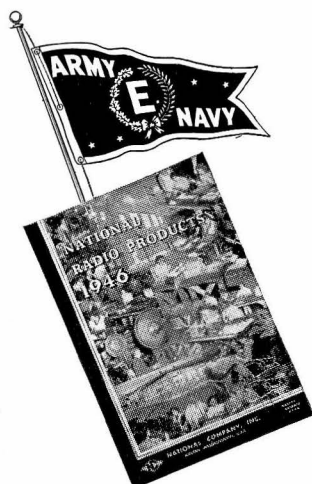
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The "Tuffy" TUF-20 has set a new standard in the portable-mobile field—a tube that can take it and put it out!

The new Taylor TB-35 Beam Tetrode has quickly established itself as a most popular type for ease of drive and for band-change rigs.

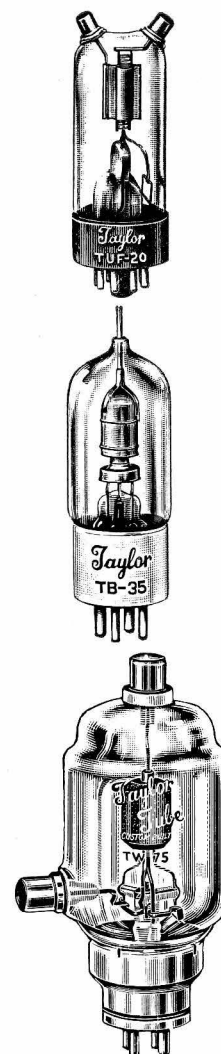
The Taylor Thin-Wall tubes—TW-75 and TW-150—are again winning many new friends for their fine performance.

That's just high-lighting a few of the famous Taylor Tubes. Others—the T-200 and the T-125—the T-20 and TZ-20—the 805 and 203 Z and the big 822 are again enjoying deserved popularity.

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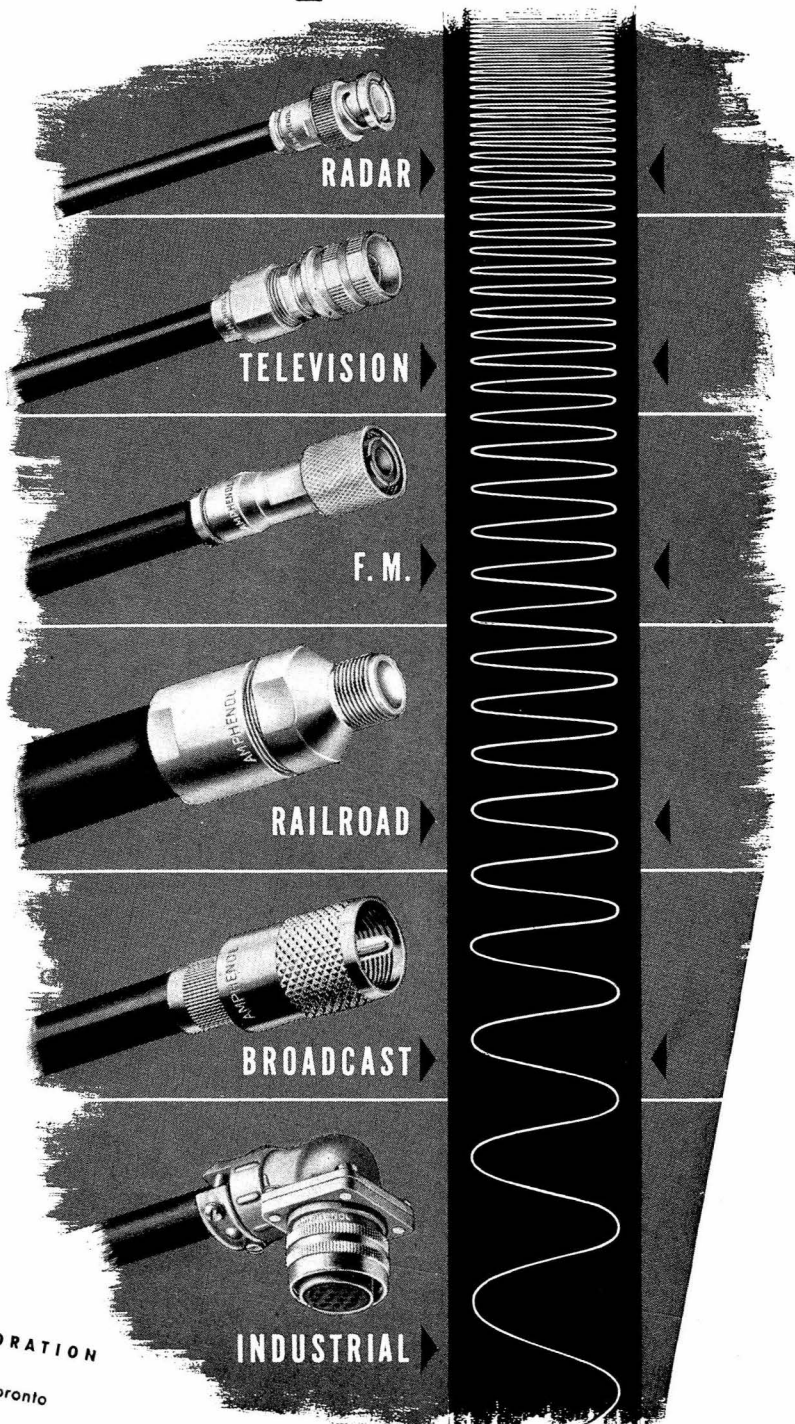

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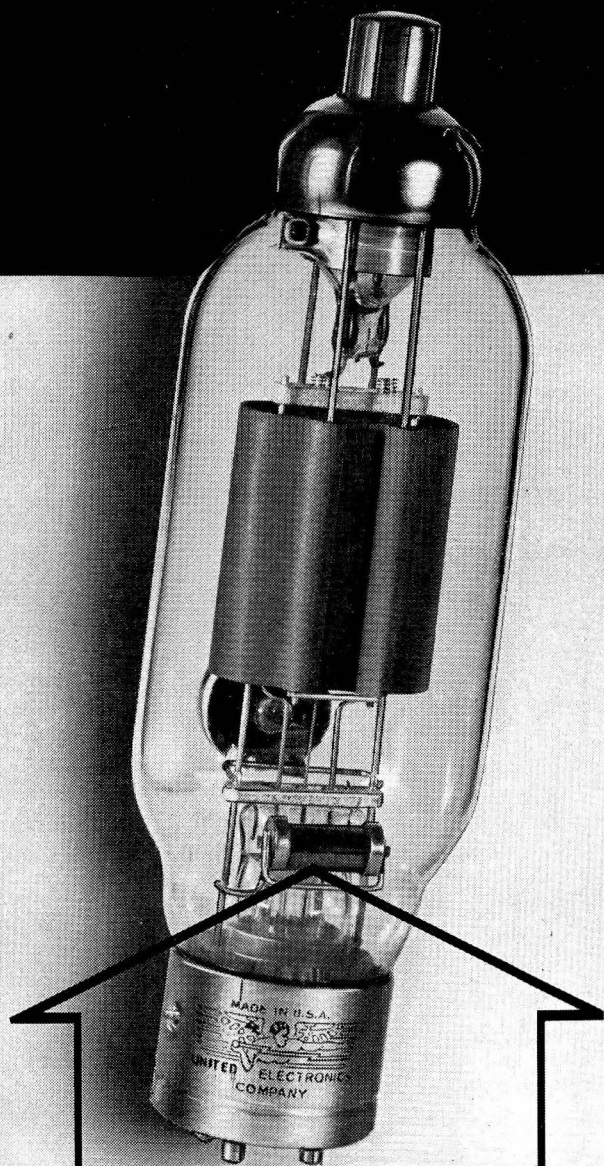
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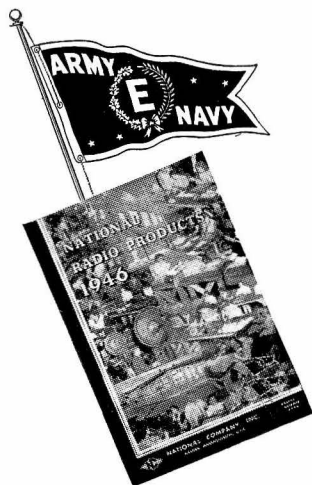
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